YPF Vaca Muerta Update

March 17th, 2014.



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These forward-looking statements may include statements regarding the intent, belief, plans, current expectations or objectives of YPF and its management, including statements with respect to YPF's future financial condition, financial, operating, reserve replacement and other ratios, results of operations, business strategy, geographic concentration, business concentration, production and marketed volumes and reserves, as well as YPF's plans, expectations or objectives with respect to future capital expenditures, investments, expansion and other projects, exploration activities, ownership interests, divestments, cost savings and dividend payout policies. These forward-looking statements may also include assumptions regarding future economic and other conditions, such as future crude oil and other prices, refining and marketing margins and exchange rates. These statements are not guarantees of future performance, prices, margins, exchange rates or other events and are subject to material risks, uncertainties, changes and other factors which may be beyond YPF's control or may be difficult to predict.

YPF's actual future financial condition, financial, operating, reserve replacement and other ratios, results of operations, business strategy, geographic concentration, business concentration, production and marketed volumes, reserves, capital expenditures, investments, expansion and other projects, exploration activities, ownership interests, divestments, cost savings and dividend payout policies, as well as actual future economic and other conditions, such as future crude oil and other prices, refining margins and exchange rates, could differ materially from those expressed or implied in any such forward-looking statements. Important factors that could cause such differences include, but are not limited to, oil, gas and other price fluctuations, supply and demand levels, currency fluctuations, exploration, drilling and production results, changes in reserves estimates, success in partnering with third parties, loss of market share, industry competition, environmental risks, physical risks, the risks of doing business in developing countries, legislative, tax, legal and regulatory developments, economic and financial market conditions in various countries and regions, political risks, wars and acts of terrorism, natural disasters, project delays or advancements and lack of approvals, as well as those factors described in the filings made by YPF and its affiliates with the Securities and Exchange Commission, in particular, those described in "Item 3. Key Information—Risk Factors" and "Item 5. Operating and Financial Review and Prospects" in YPF's Annual Report on Form 20-F for the fiscal year ended December 31, 2012 filed with the US Securities and Exchange Commission. In light of the foregoing, the forward-looking statements included in this document may not occur.

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Unconventional Development: General Overview

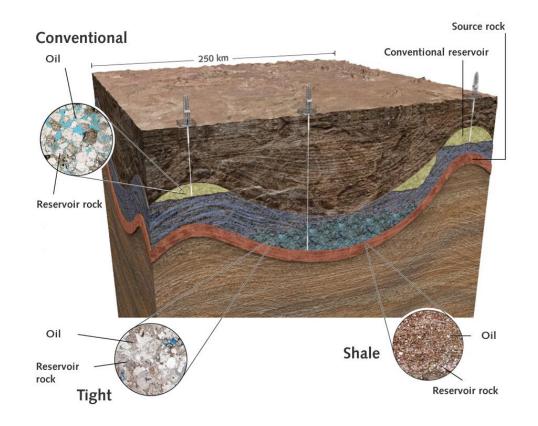
2 Increased Productivity: Sweet Spot Identification

3 Increased Productivity: Horizontal Well

4 Well Construction Cost Reduction

5 Principal Challenges for a large development

YPF Shale concept



YPF Opportunities in Shale / Tight Formations



Notes: K: thousand; M: million; B: billion (10⁹)

Tested & Producing

Vaca Muerta (shale oil / gas)

30,000 km²

Lajas (tight gas)

Area

...

Mulichinco (tight oil / gas)

D-129 (shale oil / tight oil)

Other Opportunities

Noroeste - Cretaceous Yacoraite (shale / tight oil & gas)

Noroeste - Tarija Los Monos (shale gas)

Neuquina Los Molles (shale / tight gas) Agrio (shale oil)

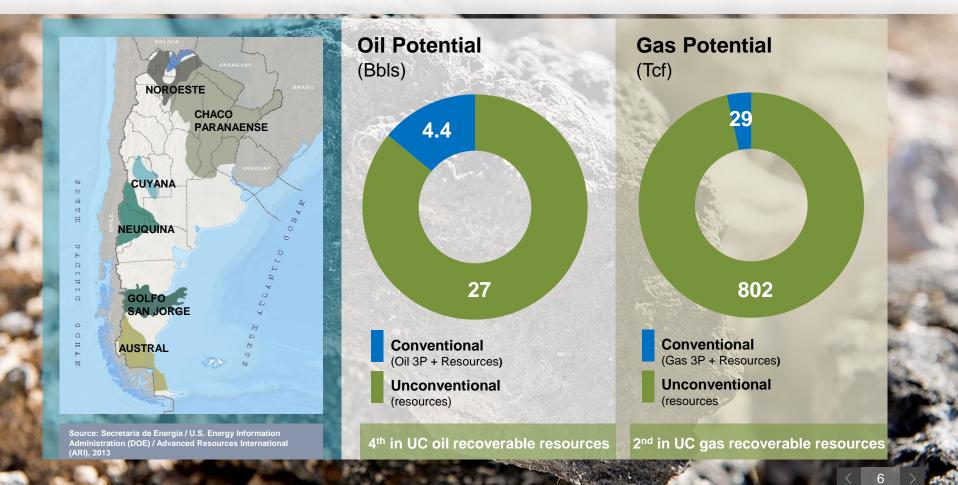
Golfo San Jorge Neocomiano (shale oil / gas)

Chaco Paranaense Devonian – Permian (shale oil)

Cuyana Cacheuta (shale oil) Potrerillos (tight oil)

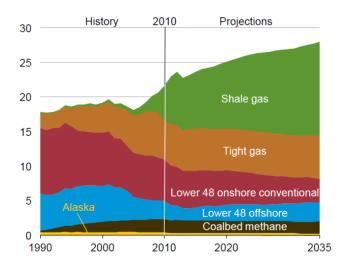
Austral Inoceramus

YPF Argentina has the resources to increase production

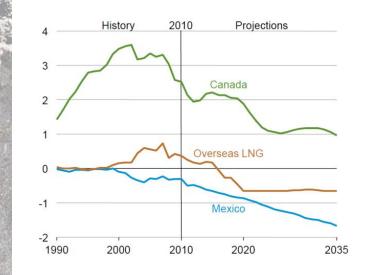


YPF Similarity to the US case

Gas Production (Tcf)



Gas Imports (Tcf)



Source: EIA 2012 Energy Outlook

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YPF Vaca Muerta vs. other unconventional resource plays

			Barnett	Haynesville	Marcellus	Eagle Ford	Wolfcamp
TOC (%)	> 2	3-10	4 - 5	0.5 - 4	2 - 12	3 - 5	3
Thickness (m)	> 30	30-450	60 - 90	60 - 90	10 - 60	30 - 100	200 - 300
Reservoir pressure (psi)	High	4,500-9,500	3,000 – 4,000	7,000 – 12,000	2,000 – 5,500	4,500 - 8,500	4,600

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YPF High Quality Oil & Gas



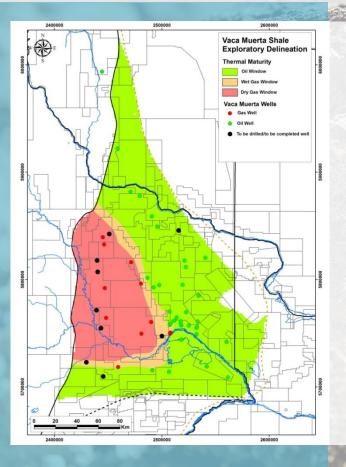
		M³/mm³	Bbl/mcft
Plant	C2	445.25	79.29
products - gas	C3	366.07	65.19
	C4	199.58	35.54
	C5	64.92	11.56
	C6	16.79	2.99
	C7+	11.63	2.07
	C5+	93.34	16.62

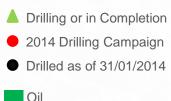
Characteristics

Pres.= 550 – 650 kg/cm³ at 2,800 m °API: 35 – 50 Pb: 120 – 200 kg/cm³ GOR: 100 - 500 m³/m³ Bo @ Pb: 1.5 – 1.9 Viscosity @ Pb: 0.3 – 0.8 cP No H2S, Minor CO₂



YPF Continuing exploration focused in Vaca Muerta





Wet gas

Dry gas

Progress in extended basin-wide delineation

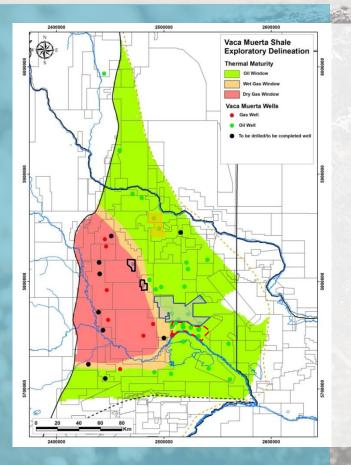
Hold the shale acreage

Increase the value of shale acreage

Delineation of new development clusters

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YPF The next development clusters



Loma Campana Unconventional Development (395 km²)

The Vaca Muerta Shale Exploratory delineation has enabled YPF to define three additional core areas with short to medium term feasibility of development:



Bajada de Añelo - Bandurria - La Amarga Chica (850 km²)

Narambuena - Bajo del Toro (250 km²)

□ El Orejano - Pampa de las Yeguas I
 □ (105 km²)

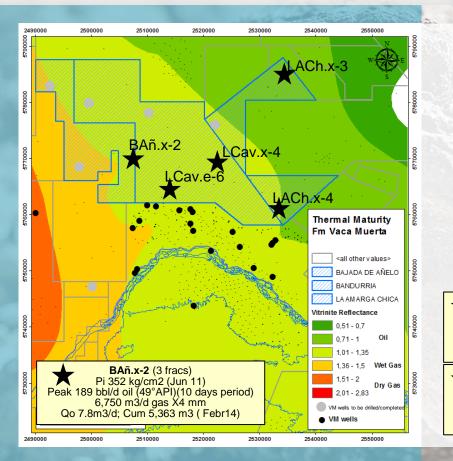
These three oil and gas core areas have been highlighted by the convergence of different aspects:

> Vertical Well performance Hydrocarbon in place Vaca Muerta rock quality

Nearby facilities YPF opperated areas

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YPF Bajada de Añelo - Bandurria - La Amarga Chica Area

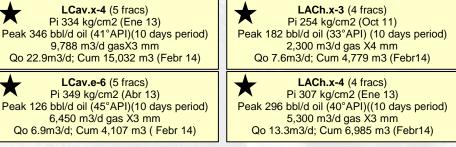


Summary

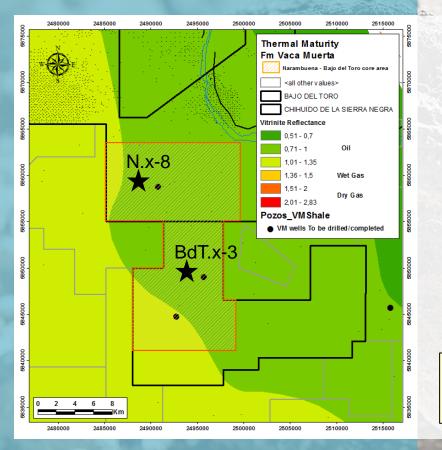
850 km2 defined by the YPF operated areas
5 oil producing vertical wells
1 well in completion
Light oil production (33 to 49°API)
Wet gas is expected towards the west (80 km²)
130 to 250 m thick (Vaca Muerta high TOC interval)

Oil In Place

Bajada de Añelo, YPF 85% (200 km²):13.8 Billion BblBandurria, YPF 54.5% (463 km²):41.6 Billion BblLa Amarga Chica, YPF 90% (187 km²):14.7 Billion Bbl



YPF Narambuena - Bajo del Toro Area



Summary

250 km2 defined by the YPF operated areas
2 oil producing vertical wells
1 well to be drilled (slant geometry)
Light oil production (35 to 37°API)
230 to 320 m thick (Vaca Muerta high TOC interval)

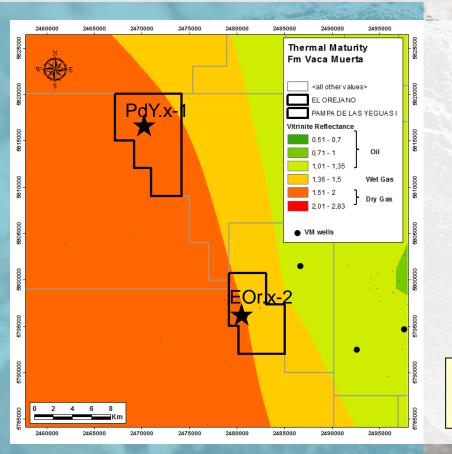
Oil In Place

Narambuena, YPF 100% (125 km²): 11.2 Billion Bbl Bajo del Toro, YPF 46.8% (125 km²): 14.9 Billion Bbl

N.x-8 (7 fracs) Pi 318 kg/cm2 (May 13) Peak 308 bbl/d oil (35°API)(10 days period) 4,800 m3/d g X3 mm Qo 9.9 m3/d; 5,141 m3 (Febr 14) ★ BdT.x-3 (6 fracs) Pi 360 kg/cm2 (May 12) Peak 459 bbl/d oil (37°API) (10 days period) 11,500 m3/d g X4 mm Qo 3.6 m3/d; 6,542 m3 (Febr 14)

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YPF El Orejano - Pampa de las Yeguas I Area

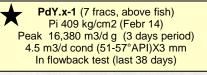


Summary

105 km2 defined by the YPF operated areas 1 gas producing vertical well (connected to gas line) 1 gas/condensate vertical well (flowback test) El Orejano block in the initial phase of a Development pilot project (16 wells, 4 wells already drilled) Gas and Condensate production 160 to 290 m thick (Vaca Muerta high TOC interval)

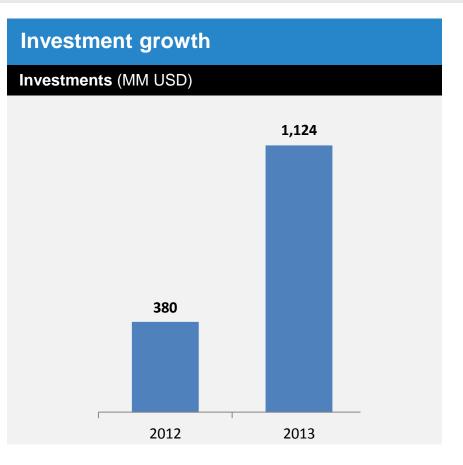
Gas In Place

Pampa de las Yeguas, YPF 45% (60 km²): 11.1 TCF El Orejano^(*), YPF 50% (45 km²): 5.6 TCF



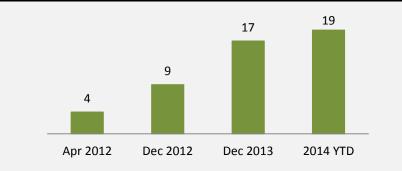
EOr.x-2(3 fracs) Pi 337 kg/cm2 (Mar 12) Peak 117,930 m3/d g X6 mm (4 days period) Qg 11.9 km3/d; 9.7 Mm3 gas (Jan 14)

YPF Unconventional: Increase in Activity

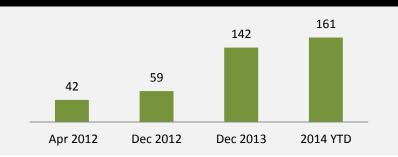


Important Activity Increase

Drilling Rigs

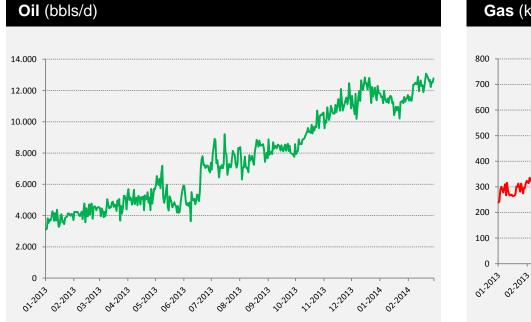


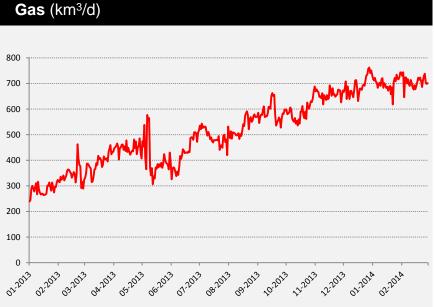
Wells in Production



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YPF Unconventional: Increase in Production





20,000

16

boe/day

Wells in production

161

Current production

YPF Project Economical Feasibility

2 Main Drivers to Reach an economical development

Increased Productivity

- Improve subsurface understanding
- Identify the Sweet Spots
- Optimize completions
- Successful horizontal development

Well Construction Cost Reduction

- Casing Drilling Techniques
- Local Sand Sourcing
- Operational efficiency optimization
- Contracts renegotiation



1 Unconventional Development: General Overview

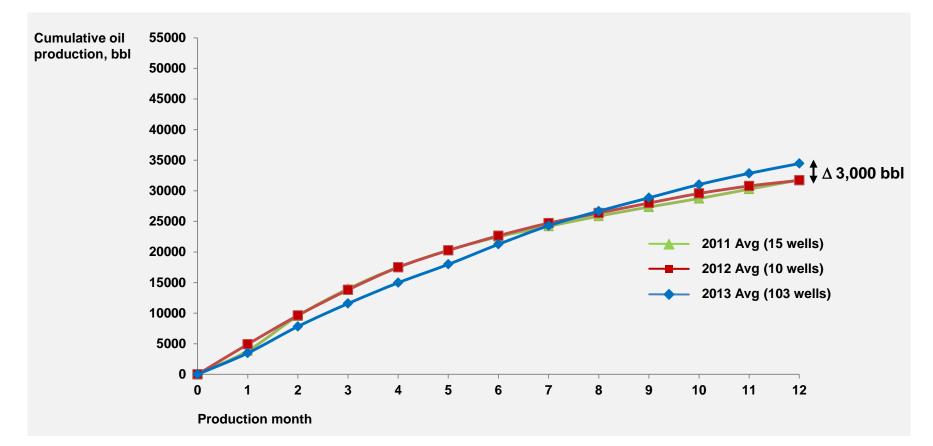
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3 Increased Productivity: Horizontal Well

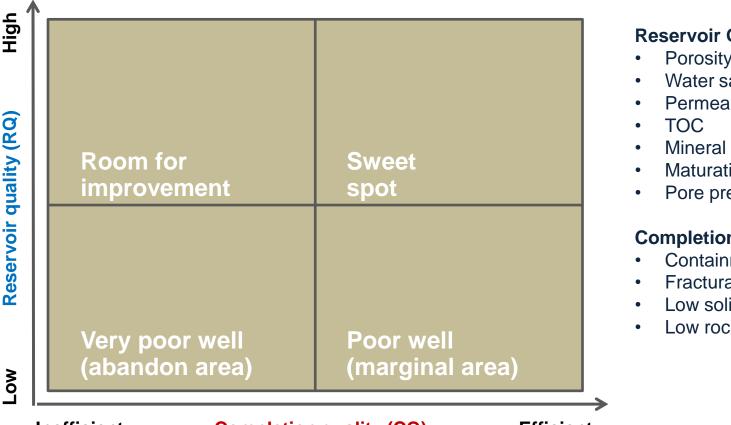
4 Well Construction Cost Reduction

5 Principal Challenges for a large development

YPF Hydraulically fractured vertical well productivity



YPF **Identifying the sweet spots:** Workflow for identification of sweet spots



Reservoir Quality

- Porosity
- Water saturation
- Permeability
- Mineral content
- Maturation
- Pore pressure

Completion Quality

- Containment
- Fracturability
- Low solids production
- Low rock-fluid sensitivity

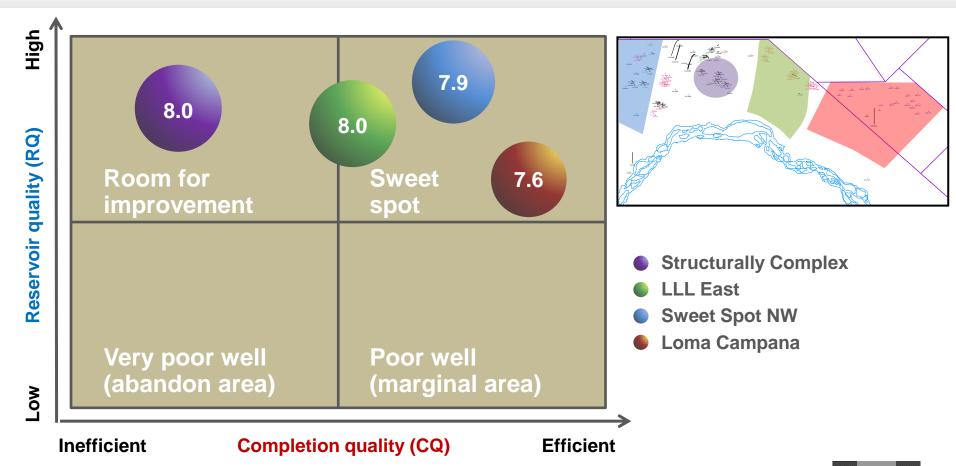
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Inefficient

Completion quality (CQ)

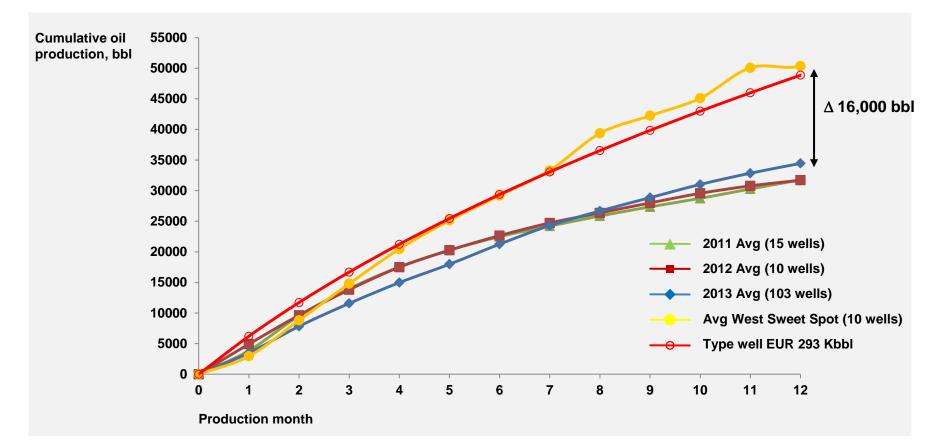
Efficient

YPF 2013 Results: Sweet Spot Economic View



Size of balloons refers to vertical well construction average cost in millions US dollars.

YPF Hydraulically fractured vertical well productivity at the sweet spot



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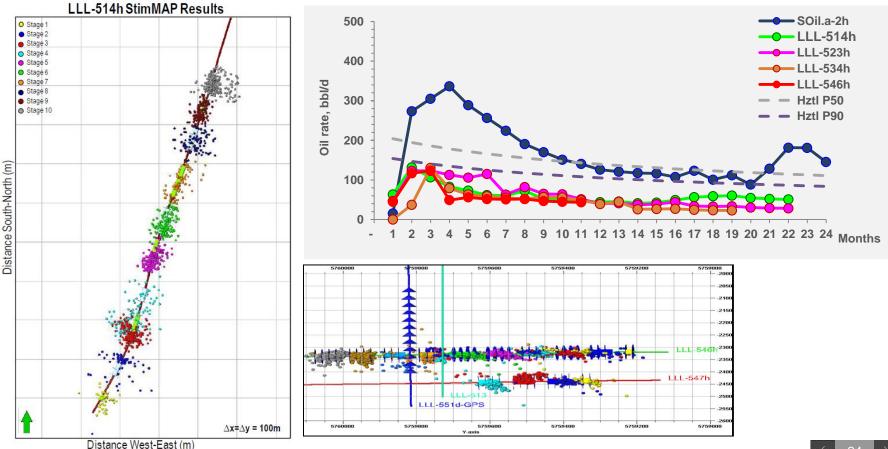
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5 Principal Challenges for a large development

YPF Previous experiences with horizontal wells in Loma Campana



YPF New Approach for Horizontal development

Multidisciplinary team approach: YPF / SLB / Von Gonten

Microseismic monitoring to:

- Observe frac growth
- Be prepared to take proactive actions

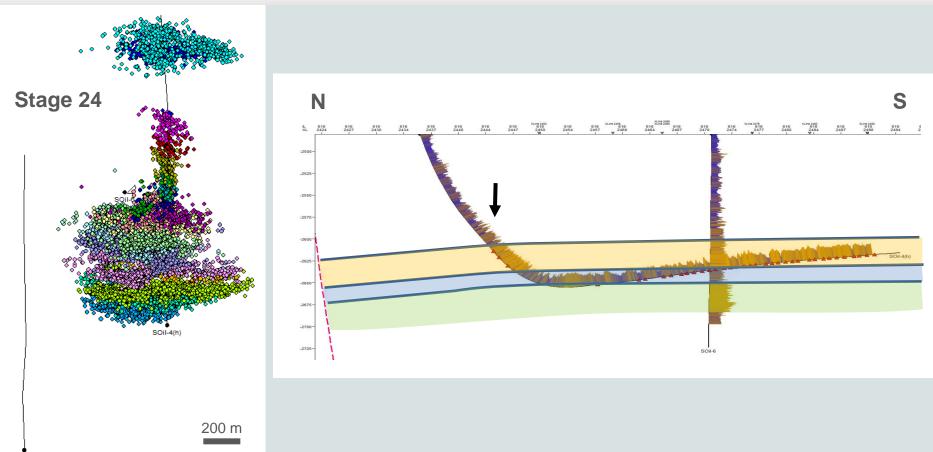
Tackle ashbed/conductivity losses with increased pumped sand and frac conductivity

Perforation re-design: re-accommodate perforation clusters

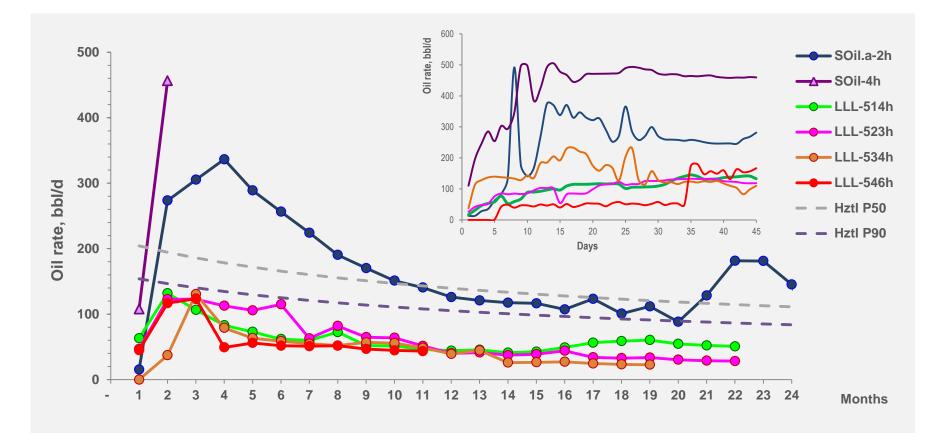
Stimulation re-design: increase total proppant per stage

DEPTH (M)	GR (GAPI) 0300. CALX (IN) 015.	Topes_Litoest	0.22000. M2R2 (OHMM) 0.22000. M2R1 (OHMM) 0.22000. DT (US/F) 9540.	NivelNavegacion	ZDEN (G/C3) 1.95 2.95 CNCF (dec) 0.45 -0.15 NMR:MPHS (ou) 0.45 -0.15	Int_Catr:PHIE 0.5 0.	Materia Organica Quarzo Arcilla Carbonato	RHOZ-DT-NPHI 0. — 7.	YMOD_EST_F 04,	IND_ANISO_MEC
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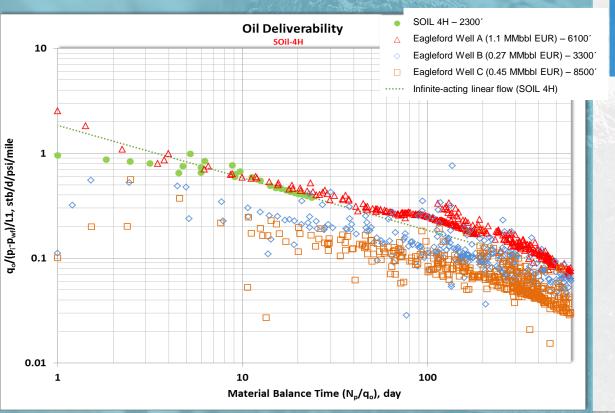
YPF Microseismic monitoring from SOil-6: plan view



YPF Horizontal well performance including SOil.-4h



YPF Deliverability Comparison



Normalization on Stimulated Length

When normalized against the effectively-fractured length, SOil-4H displays a superior deliverability compared to 3 different black oil Eagle Ford wells

In conclusion, had SOil-4H been drilled and completed at its full length, it might be boasting the high production rates of the best Eagle Ford black oil horizontal wells

Source: WD Von Gonten, comparison study prepared for YPF.



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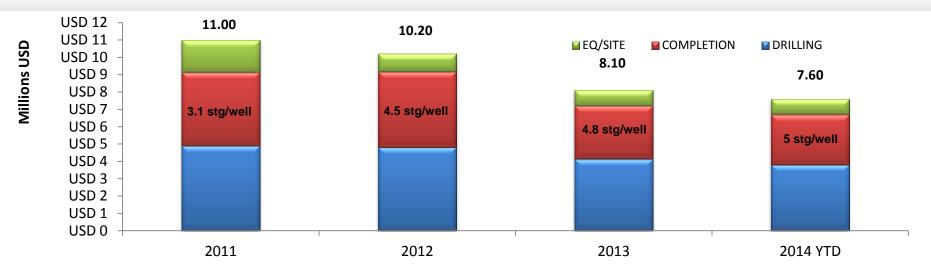
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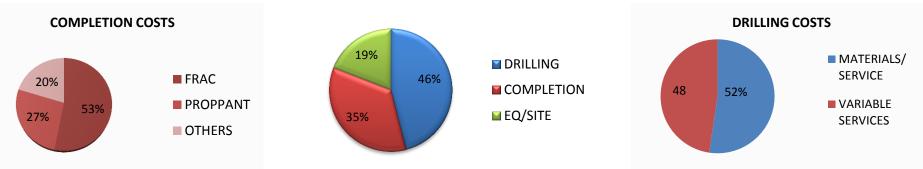
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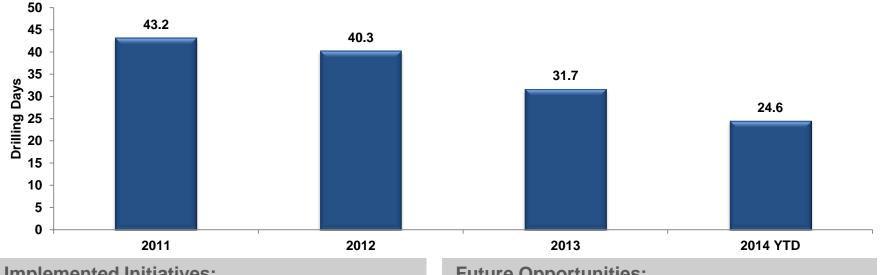
5 Principal Challenges for a large development

YPF WELL COST Drilling & Completion





YPF **Drilling:** Time Improvements



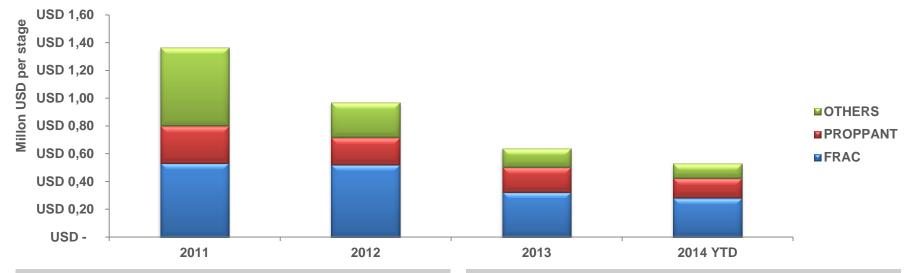
Implemented Initiatives:

- MPD / UBD Operational Procedure ٠
- Introduction of Casing Drilling ٠
- **Directional Drilling Optimization** ٠
- **Multipad locations** •

Future Opportunities:

- Widespread use of Casing Drilling .
- New automated rigs / skidding •
- Use of 4" DP for entire well .
- Mud Plant .

YPF Completion: Costs Improvements



Implemented Initiatives:

- Monthly "Bundle" contracts
- Multiple proppant providers
- Adoption of new technology
- Operational efficiency Optimization: 3 stg/day, SIMOPS, Plug & Perf technology

Future Opportunities:

- Renegotiation of Bundle Contracts
- 100 % local proppant utilization
- Bulk proppant logistics
- Water distribution Network



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1 Unconventional Development: General Overview

2 Increased Productivity: Sweet Spot Identification

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Principal Challenges for a large development

YPF Principal challenges for a large development

Enhance development economics

+ Increased Productivity

- Improve subsurface understanding
- Identify the Sweet Spots
- Optimize completions
- Successful horizontal development
- + Well Construction Cost Reduction
 - Casing Drilling Techniques
 - Local Sand Sourcing
 - Operational efficiency optimization (new rig fleet)
 - Contracts renegotiation

Reserves

- + Reserves Estimation Methodology
 - Traditional DCA methods do not apply
 - It is necessary to consider Pressure decline rates (RTA, Simulation)

YPF Principal challenges for a large development

Design a sustainable development

- + Minimize the environmental impact
 - Multiwell Rig Pad (Rigs "fit for purpose")
 - Optimize Water and Sand logistics (Minimize truck transportation)
 - Pipe network for water pumping to well location
 - Railway to the site for sand storage
 - · Treatment and re-use of Flow back water

Align objectives with all the stakeholders

+ Federal and Provincial Government

- Provide the right regulatory scheme
- + Communities
 - Expand Social License to operate

+ Labor Unions

• Enhance labor contracts focusing on productivity

NUESTRA ENERGÍA